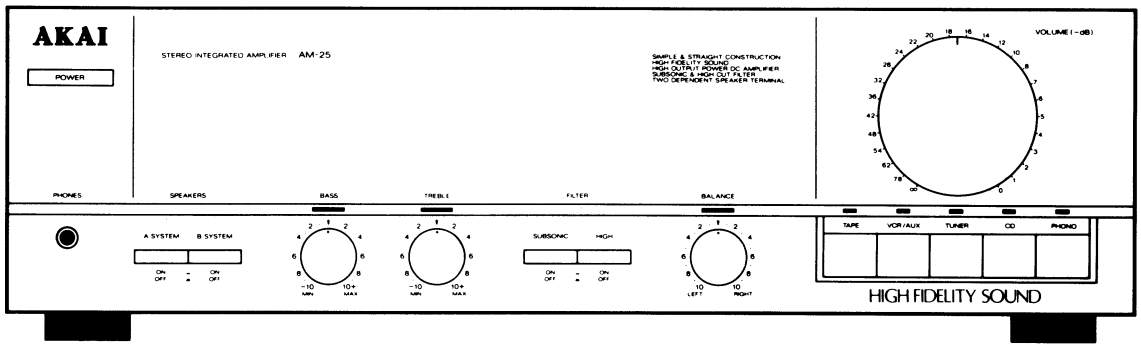
AKAI SERVICE MANUAL



STEREO INTEGRATED AMPLIFIER

MODEL AM-15
MODEL AM-25

SPECIFICATIONS

Power output (DIN 1 kHz)	
AM−15	35 W+35 W
AM−25	60 W+60 W
Music power output	
AM−15	160 W
AM−25	270 W
S/N (IHF-A)	
Phono (MM)	75 dB
Tuner etc.	100 dB
Residual noise	0.4 mV
Channel separation (1 kHz)	60 dB
Damping factor (1 kHz, 8 ohms)	35
Required speaker impedance	
A or B	4 ohms to 16 ohms
A and B	8 ohms to 16 ohms
Input sensitivity/Impedance	
Phono (MM)	3 mV/47 kohms
Tuner, etc	150 mV/47 kohms
Phono max. input level (1 kHz)	100 mV

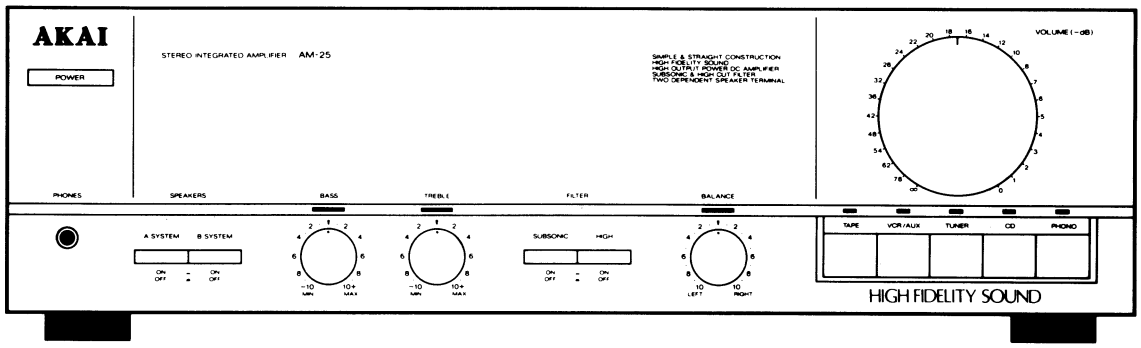
Filters	
High	7 kHz, -6 dB/oct
Subsonic	18 Hz, -6 dB/oct
Power requirements	220V, 50 Hz for Europe except UK. 240V, 50 Hz for UK and Australia. 110V/120V/220V/240V, 50/60 Hz convertible for other countries.
Dimensions	425(W)×130(H)×270(D) mm (16.7×5.1×10.6 inches)
Weight	
AM−15	8.0 kg(17.6 lbs)
AM−25	9.0 kg(19.8 lbs)

Standard accessories

Operator's manual	1

* For improvement purposes, specifications and design are subject to change without notice.

AKAI SERVICE MANUAL



STEREO INTEGRATED AMPLIFIER

MODEL AM-15
MODEL AM-25

SPECIFICATIONS

Power output (DIN 1 kHz)	
AM−15	35 W+35 W
AM−25	60 W+60 W
Music power output	
AM−15	160 W
AM−25	270 W
S/N (IHF-A)	
Phono (MM)	75 dB
Tuner etc.	100 dB
Residual noise	0.4 mV
Channel separation (1 kHz)	60 dB
Damping factor (1 kHz, 8 ohms)	35
Required speaker impedance	
A or B	4 ohms to 16 ohms
A and B	8 ohms to 16 ohms
Input sensitivity/Impedance	
Phono (MM)	3 mV/47 kohms
Tuner, etc	150 mV/47 kohms
Phono max. input level (1 kHz)	100 mV

Filters	
High	7 kHz, -6 dB/oct
Subsonic	18 Hz, -6 dB/oct
Power requirements	220V, 50 Hz for Europe except UK. 240V, 50 Hz for UK and Australia. 110V/120V/220V/240V, 50/60 Hz convertible for other countries.
Dimensions	425(W)×130(H)×270(D) mm (16.7×5.1×10.6 inches)
Weight	
AM−15	8.0 kg(17.6 lbs)
AM−25	9.0 kg(19.8 lbs)

Standard accessories

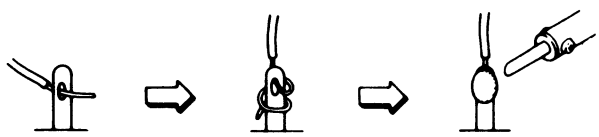
Operator's manual	1

* For improvement purposes, specifications and design are subject to change without notice.

★SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠(*) symbol parts are critical for safety. Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.
The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal-input/output connectors, etc.) and the earth ground through a resister of 1500 ohms paralleled with a 0.15 μF capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.
The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

★INFORMATION

SYMBOLS FOR PRIMARY DESTINATION

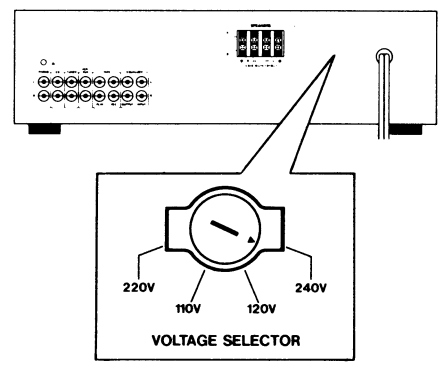
Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations
A	USA
B	UK
C	Canada
E	Europe (except UK)
J	Japan
S	Australia
V	W. Germany only
U	Universal Area
Y*	Custom version

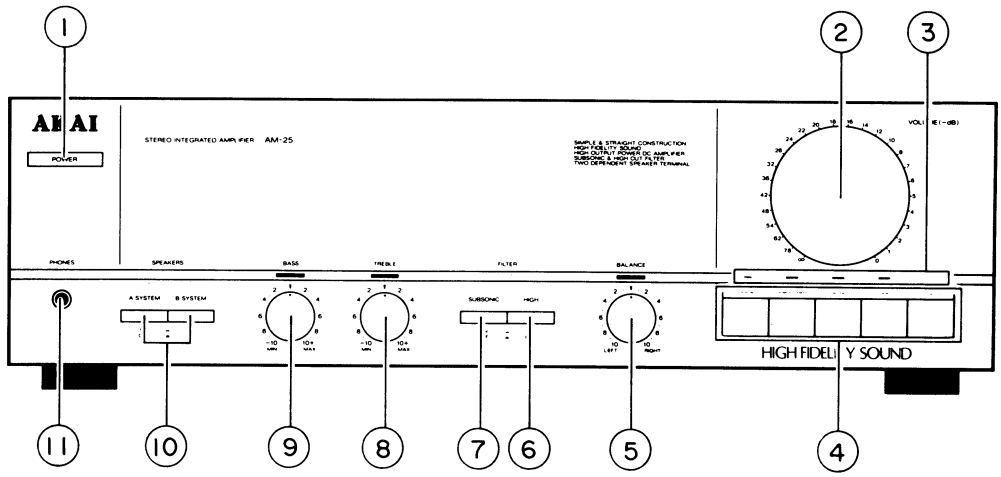
VOLTAGE CONVERSION

(U Model only)

Before connecting the power cord. Set the VOLTAGE SELECTOR located on the rear panel with a screwdriver so that the correct voltage is indicated.



I. CONTROLS



❶ **POWER Button**
To turn the power on and off.

❷ **VOLUME Control**
To adjust the volume level.

❸ **Input Source Indicators (TAPE, VCR/AUX, TUNER, CD, PHONO)**
Tells you the amplifier is turned on and which playback source is selected.

❹ **Input Select Buttons (TAPE, VCR/AUX, TUNER, CD, PHONO)**
To select a playback or recording source you wish to listen to.

❺ **BALANCE Control (LEFT/RIGHT)**
To adjust the left and right channel volume balance.

❻ **HIGH FILTER Switch (▁ ON/ ▔ OFF)**
To turn the high filter on and off.

❼ **SUBSONIC FILTER Switch (▁ ON/ ▔ OFF)**
To turn the subsonic filter on and off.

❽ **TREBLE Tone Control**
To adjust the high note (treble) level. When set to 0, the control is ineffective.

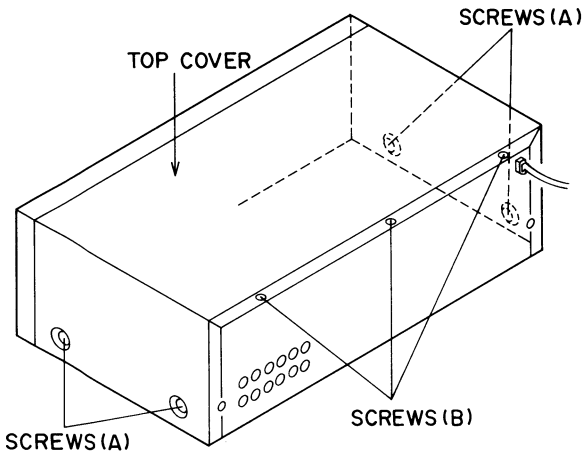
❾ **BASS Tone Control**
To adjust the low note (bass) level. When set to 0, the control is ineffective.

❿ **A and B SPEAKERS Switch (▁ ON/ ▔ OFF)**
To turn the speaker system on and off.

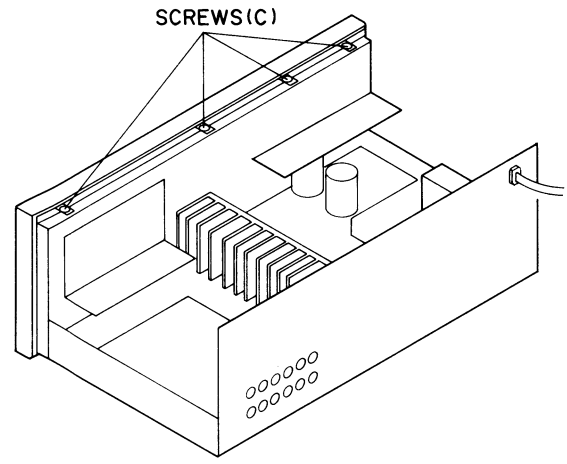
⓫ **PHONES Jack**
For headphone listening.
Connect the headphone plug to the jack.

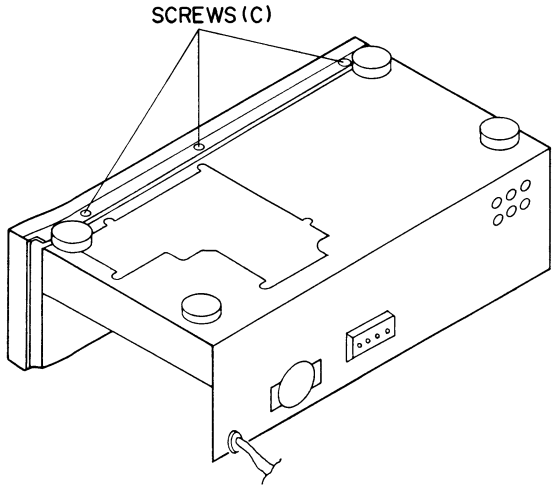
II. DISASSEMBLY

1. Removal of TOP COVER
Remove 4 screws (A) and 3 screws (B).

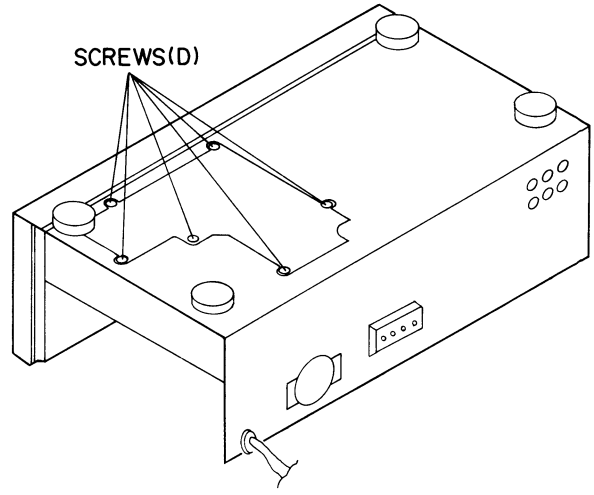


2. Removal of FRONT COVER
Remove 8 screws (C).

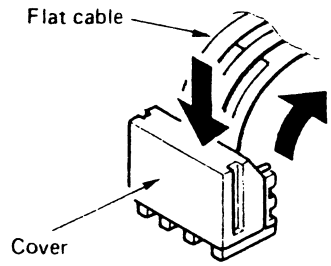




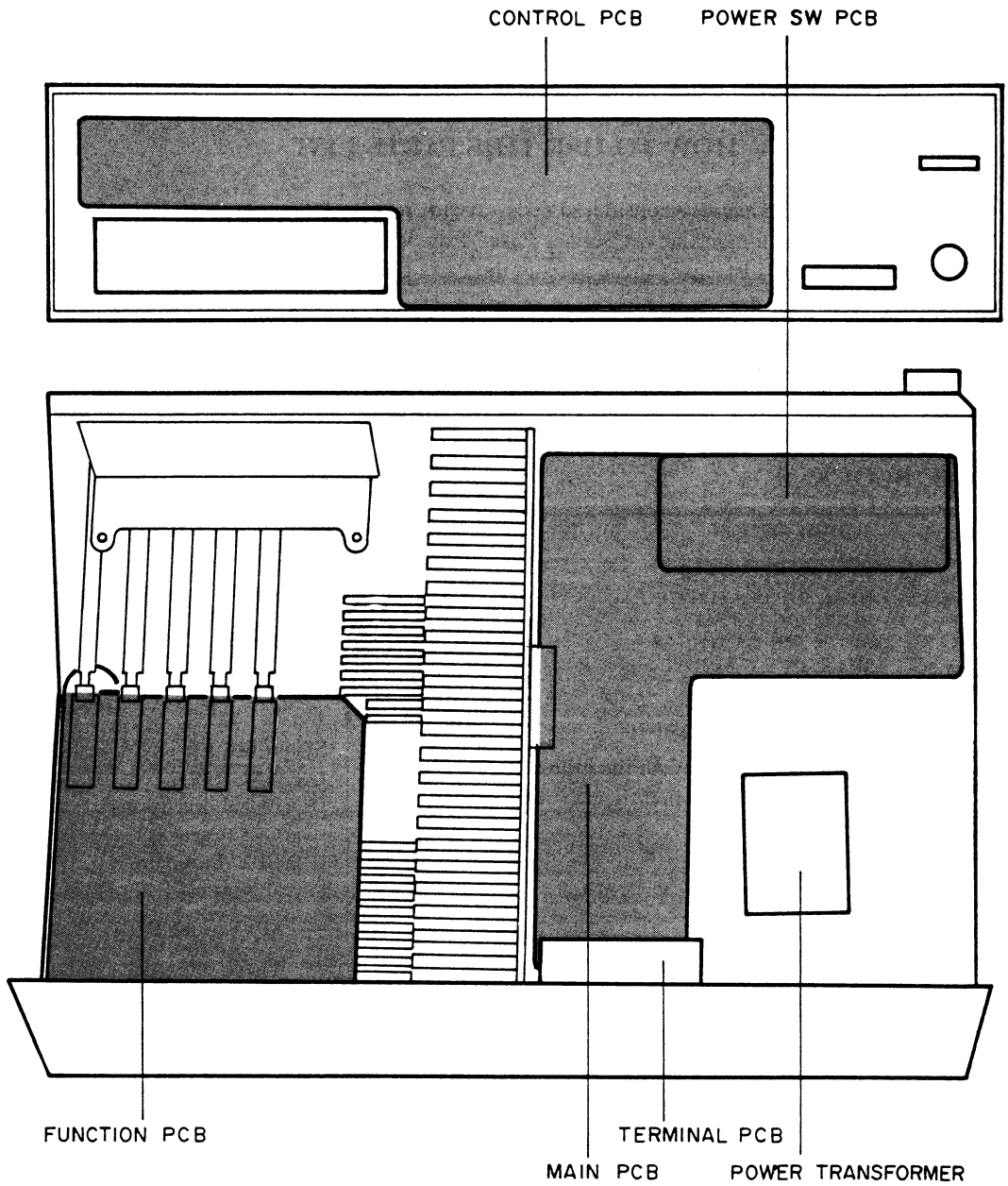
3. Removal of BOTTOM COVER
Remove 6 screws (D).



How to disconnect the flat cable
Pull up the flat cable, depressing the cover of connector.



III. PRINCIPAL PARTS LOCATION



IV. PARTS LIST

ATTENTION

1. **When placing an order for parts, be sure to list Part No., Model No. and the description of eachpart. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.**
2. **Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.**
3. **Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.**

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in that figure.

b) PC Board

6. MAIN PC BOARD

REF. NO.	PART NO.	DESCRIPTION
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination

[A] : AAL (U.S.A) [S] : SAA (Australia)
[B] : BEAB (England) [U] : U/T (Universa Area)
[C] : CSA (Canada)
[E] : CEE (Europe) [V] : VDE (W. Germany)
[J] : JPN (Janan) [Y] : Custom Version

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No.listed at right of Part No.

WARNING

⚠(*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠(*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	✱BT-727073T	TRANS POW AM-A335(U) [U] [AM-15]
2	✱BT-727086T	TRANS POW AM-A535(B,S) [B,S] [AM-25]
3	✱BT-727087T	TRANS POW AM-A535(E,V) [E,V] [AM-25]
4	✱BT-727088T	TRANS POW AM-A535(U) [U] [AM-25]
5	✱BT-720729	TRANS POW TPZ-4066 AM-A305(B,S) [B,S] [AM-15]
6	✱BT-720730	TRANS POW TPZ-4067 AM-A305(E) [E,V] [AM-15]
7	ED-727084T	D LED SE-6321 [PHONE]
8	✱ED-353550	D SILICON DBA30C-K12 200/3.0A [AM-15]
9	✱ED-350748	D SILICON DBA60C-K15 200/6.0A [AM-25]
10	✱ED-357754	D SILICON DS135D 200/1.0A
11	✱ED-327057	D SILICON H DS442X
12	✱ED-308860	D ZENER H RD16E B
13	✱EF-359007	FUSE BET T 250V 1.25A [B,S] [AM-25]
14	✱EF-364518	FUSE BET T 250V 2.50A [B,S] [AM-15]
15	✱EF-359225	FUSE BET T 250V 3.15A [B,S] [AM-15]
16	✱EF-359086	FUSE BET T 250V 4.00A [B,S] [AM-25]
17	✱EF-358641	FUSE BET T 250V 800MA [B,S] [AM-15]
18	✱EF-602550	FUSE SEMKO T 250V 1.25A [U] [AM-15]
19	✱EF-601301	FUSE SEMKO T 250V 2.00A [U] [AM-25]
20	✱EF-623125	FUSE SEMKO T 250V 2.50A [E,V] [AM-15]
21	✱EF-691007	FUSE SEMKO T 250V 3.15A [E,V] [AM-15]
22	✱EF-690996	FUSE SEMKO T 250V 4.00A [E,V] [AM-25]
23	✱EF-258344	FUSE SEMKO T 250V 800MA [E,V] [AM-15]
24	EI-346071	IC M5218L-21
25	✱EI-358554	IC STK4152II [AM-15]
26	✱EI-727090T	IC STK4192-2 [AM-25]
27	✱ER-368966	R CB H FS RDS 1/4W 8R2J
28	✱ER-324337	R CB H S10 FS RDS 1/4W 560J
29	✱ER-720717	R CB 1/3W 560J
30	✱ER-360064	R OMF H S1O FS 1/2W 221J [AM-15]
31	✱ER-378735J	R OMF H S12 FS 1W 391J [AM-25]
32	✱ER-341940	R OMF H S15 FS 1W 100J
33	✱ER-355633	R OMF H S15 FS 1W 331J [AM-15]
34	✱ER-325843	R OMF H S15 FS 1W 391J [AM-25]
35	ES-364176	SW PUSH SPPH11 2-02-02N [SUBSONIC]
36	ES-727077T	SW PUSH SPUF54AA37-CL [INPUT SELECTOR]
37	ES-727078T	SW PUSH SPUL24C003-CL [SPEAKER SELECTOR]
38	✱ES-720817	SW PUSH 125V 10A [POWER SW]
39	✱ES-349070	SW SELECTOR YKS11-0002 02-4 [U]
40	✱ET-348302	TR FET 2SK381 C,D F05
41	✱ET-371005	TR 2SA1284 D,E F05
42	✱ET-720724	TR 2SC3244 D,E
43	✱ET-360137	TR 2SC3330 U,V F05
44	EV-725592T	VR ROTARY VB161GPV25F-15C50K [BASS]
45	EV-725471T	VR ROTARY VB161PV25F-4BM10K [BALANCE]
46	EV-727083T	VR VB101GPV25F-15A 103 [VOLUME]

2. P.C BOARD BLOCK

Ref. No.	Part No.	Description
1A	BA-729399T	PC(#) MAIN BLK AM-15(B,S) [B,S]
1B	BA-729400T	PC(#) MAIN BLK AM-15(V) [V]
1C	BA-729401T	PC(#) MAIN BLK AM-15(E) [E]
1D	BA-729402T	PC(#) MAIN BLK AM-15(U) [U]
1E	BA-729393T	PC(#) MAIN BLK AM-25(B,S) [B,S]
1F	BA-729394T	PC(#) MAIN BLK AM-25(V) [V]
1G	BA-729395T	PC(#) MAIN BLK AM-25(E) [E]
1H	BA-729396T	PC(#) MAIN BLK AM-25(U) [U]
2	BA-729398T	PC FUNCTION BLK AM-15/25

PC (#) MAIN BLK CONSISTS OF FOLLOWING P.C BOARD.

* MAIN P.C BOARD
* POWER SW P.C BOARD

3. MAIN P.C BOARD

Ref. No.	Part No.	Description
C45A	✱EC-352643	C EC V 472M 40DC [AM-15]
C45B	✱EC-351909	C EC V CUT SM 472M 50.0DC [AM-25]
C46A	✱EC-352643	C EC V 472M 40DC [AM-15]
C46B	✱EC-351909	C EC V CUT SM 472M 50.0DC [AM-25]
D31A	✱ED-353550	D SILICON DBA30C-K12 200/3.0A [AM-15]
D31B	✱ED-350748	D SILICON DBA60C-K15 200/6.0A [AM-25]
D51	✱ED-308860	D ZENER H RD16E B
D61	✱ED-308860	D ZENER H RD16E B
D802	✱ED-327057	D SILICON H DS442X
D803	✱ED-357754	D SILICON DS135D 200/1.0A
D804	✱ED-348990	D SILICON H DS446
D805	ED-348990	D SILICON H DS446
IC301A	✱EI-358554	IC STK4152II [AM-15]
IC301B	✱EI-727090T	IC STK4192-2 [AM-25]
J331	EJ-720702	PHONE J [HEADPHONE]
L301	EO-337880	COIL FIX 2 202AK-018 2R2K
L302	EO-342936	COIL BALUM
L401	EO-337880	COIL FIX 2 202AK-018 2R2K
L402	EO-342936	COIL BALUM
R51A	✱ER-360064	R OMF H S1O FS 1/2W 221J [AM-15]
R51B	✱ER-325843	R OMF H S15 FS 1W 391J [AM-25]
R61	✱ER-720717	R CB 1/3W 560J
R308	✱ER-368966	R CB H FS RDS 1/4W 8R2J
R311	✱ER-341940	R OMF H S15 FS 1W 100J
R312	✱ER-341940	R OMF H S15 FS 1W 100J
R314	✱ER-324337	R CB H S10 FS RDS 1/4W 560J
R315A	✱ER-355633	R OMF H S15 FS 1W 331J [AM-15]
R315B	✱ER-378735J	R OMF H S12 FS 1W 391J [AM-25]
R411	✱ER-341940	R OMF H S15 FS 1W 100J
R412	✱ER-341940	R OMF H S15 FS 1W 100J
R415A	✱ER-355633	R OMF H S15 FS 1W 331J [AM-15]
R415B	✱ER-378735J	R OMF H S12 FS 1W 391J [AM-25]
R801	✱ER-720699	R CB 1/3W 100J
R804	✱ER-313517	R OMF H S20 FS 2W 222J
SW331	ES-727078T	SW PUSH SPUL24C003-CL [SPEAKER SELECTOR]
TR51	✱ET-720724	TR 2SC3244 D,E
TR52	✱ET-348302	TR FET 2SK381 C,D F05
TR61	✱ET-371005	TR 2SA1284 D,E F05
TR62	✱ET-348302	TR FET 2SK381 C,D F05
TR801	✱ET-360137	TR 2SC3330 U,V F05
F3A	✱EF-691007	FUSE SEMKO T 250V 3.15A [E,V] [AM-15]
F3B	✱EF-359225	FUSE BET T 250V 3.15A [B,S] [AM-15]
F3C	✱EF-690996	FUSE SEMKO T 250V 4.00A [E,V] [AM-25]
F3D	✱EF-359086	FUSE BET T 250V 4.00A [B,S] [AM-25]
F4A	✱EF-691007	FUSE SEMKO T 250V 3.15A [E,V] [AM-15]
F4B	✱EF-359225	FUSE BET T 250V 3.15A [B,S] [AN-15]
F4C	✱EF-690996	FUSE SEMKO T 250V 4.00A [E,V] [AM-25]
F4D	✱EF-359086	FUSE BET T 250V 4.00A [B,S] [AM-25]
F5A	✱EF-691007	FUSE SEMKO T 250V 3.15A [U] [AM-15]
F5B	✱EF-623125	FUSE SEMKO T 250V 2.50A [E,V] [AM-15]
F5C	✱EF-364518	FUSE BET T 250V 2.50A [B,S] [AM-15]
F5D	✱EF-690996	FUSE SEMKO T 250V 4.00A [U] [AM-25]
F5E	✱EF-691007	FUSE SEMKO T 250V 3.15A [E,V] [AM-25]
F5F	✱EF-359225	FUSE BET T 250V 3.15A [B,S] [AM-25]
F6A	✱EF-691007	FUSE SEMKO T 250V 3.15A [U] [AM-15]
F6B	✱EF-623125	FUSE SEMKO T 250V 2.50A [E,V] [AM-15]
F6C	✱EF-364518	FUSE BET T 250V 2.50A [B,S] [AM-15]
F6D	✱EF-690996	FUSE SEMKO T 250V 4.00A [U] [AM-25]
F6E	✱EF-691007	FUSE SEMKO T 250V 3.15A [E,V] [AM-25]
F6F	✱EF-359225	FUSE BET T 250V 3.15A [B,S] [AM-25]

4. EQUALIZER P.C BOARD

Ref. No.	Part No.	Description
IC101	✱EI-346071	IC M5218L-21
J101	EJ-724649T	PIN J PCB-204S [PHONE/CD]
J102	EJ-720704	PIN J. 4P [TUNER,VCR/AUX]
J103	EJ-720704	PIN J. 4P [TAPE]
J104	EJ-720704	PIN J. 4P [EQUALIZER]
R129	✱ER-720699	R CB 1/3W 100J
R130	✱ER-720699	R CB 1/3W 100J
SW101	ES-727077T	SW PUSH SPUF54AA37-CL [INPUT SELECTOR]

5. POWER SW P.C BOARD

Ref. No.	Part No.	Description
L11	EO-338409	COIL LF FKOB160MH02 250UH [V]
SW11	✱ES-720817	SW PUSH 125V 10A [POWER SW]
F1A	✱EF-602550	FUSE SEMKO T 250V 1.25A [U] [AM-15]
F1B	✱EF-258344	FUSE SEMKO T 250V 800MA [E,V] [AM-15]
F1C	✱EF-358641	FUSE BET T 250V 800MA [B,S] [AM-15]
F1D	✱EF-601301	FUSE SEMKO T 250V 2.00A [U] [AM-25]
F1E	✱EF-602550	FUSE SEMKO T 250V 1.25A [E,V] [AM-25]
F1F	✱EF-359007	FUSE BET T 250V 1.25A [B,S] [AM-25]
F2A	✱EF-602550	FUSE SEMKO T 250V 1.25A [U] [AM-15]
F2B	✱EF-601301	FUSE SEMKO T 250V 2.00A [U] [AM-25]

6. FUNCTION P.C BOARD

Ref. No.	Part No.	Description
D101	ED-727084T	D LED SE-6321 [PHONE]
D102	ED-727084T	D LED SE-6321 [CD]
D103	ED-727084T	D LED SE-6321 [TUNER]
D104	ED-727084T	D LED SE-6321 [VCR/AUX]
D105	ED-727084T	D LED SE-6321 [TAPE]
IC501	EI-346071	IC M5218L-21
R511	ER-720699	R CB 1/3W 100J
R512	ER-720699	R CB 1/3W 100J
SW501	ES-364176	SW PUSH SPPH11 2-02-02N [SUBSONIC]
SW502	ES-364176	SW PUSH SPPH11 2-02-02N [HIGH]
VR101	EV-727083T	VR VB101GPV25F-15A 103 [VOLUME]
VR102	EV-725471T	VR ROTARY VB161PV25F-4BM10K [BALANCE]
VR501	EV-725592T	VR ROTARY VB161GPV25F-15C50K [BASS]
VR502	EV-725592T	VR ROTARY VB161GPV25F-15C50K [TREBLE]

7. ASSEMBLY BLOCK

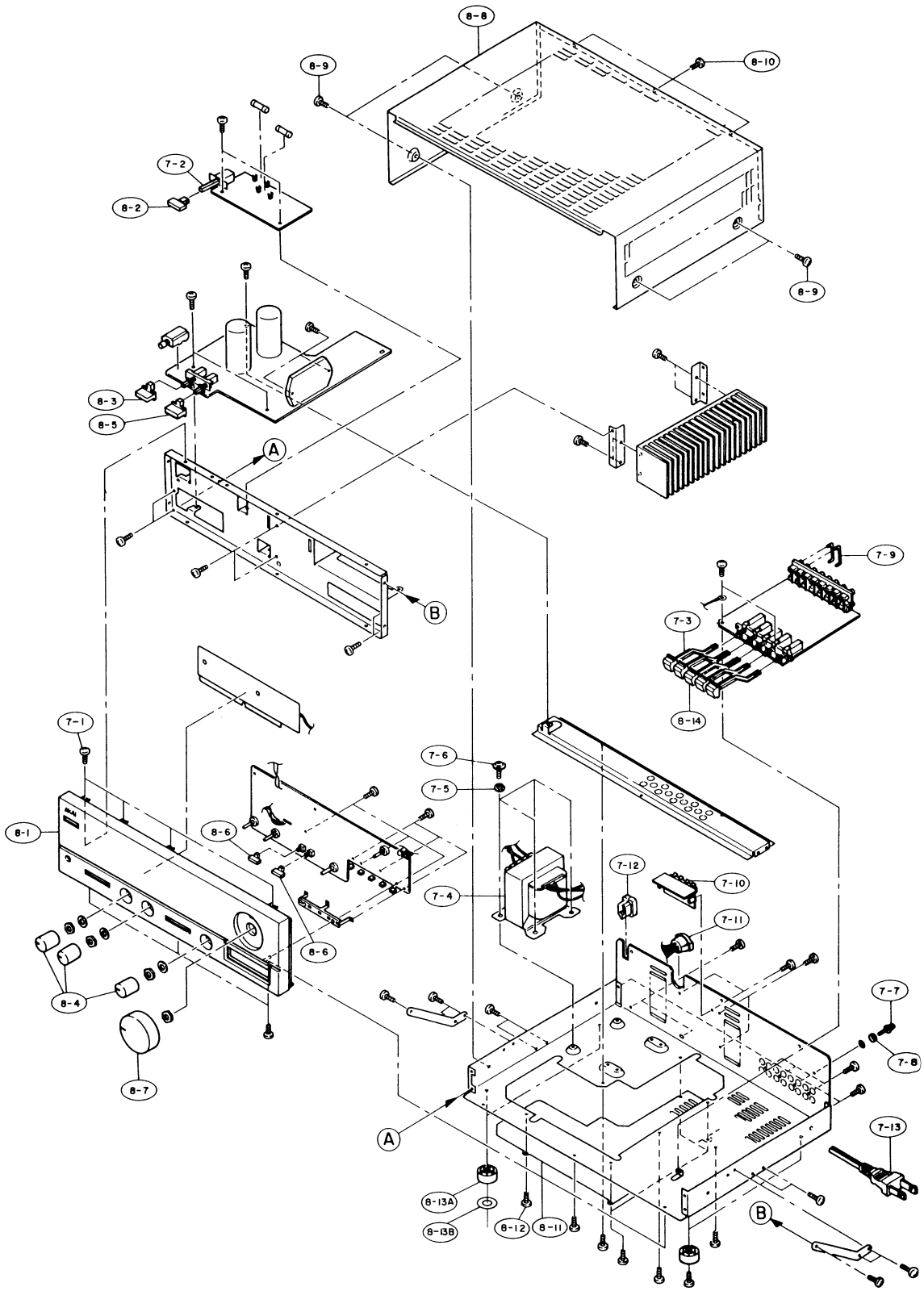
Ref. No.	Part No.	Description
1	ZS-320906	ST BR30X06STL CMT
2	MZ-727067T	LINK POWER
3	MZ-727070T	LINK FUNCTION
4A	✱BT-727073T	TRANS POW AM-A335(U) [U] [AM-15]
4B	✱BT-720730	TRANS POW TPZ-4067 AM-A305(E) [E,V] [AM-15]
4C	✱BT-720729	TRANS POW TPZ-4066 AM-A305(B,S) [B,S] [AM-15]
4D	✱BT-727088T	TRANS POW AM-A535(U) [U] [AM-25]
4E	✱BT-727087T	TRANS POW AM-A535(E,V) [E,V] [AM-25]
4F	✱BT-727086T	TRANS POW AM-A535(B,S) [B,S] [AM-25]
5	ZW-727076T	WASHER SPRING
6	ZS-715479	T-SCREW 3X14
7	EJ-722929T	TERMINAL EARTH
8	ZW-727071T	WASHER GND
9	EJ-720690	PLUG SHORT PIN
10	EJ-720705	TERMINAL BOARD (SP)
11	✱ES-349070	SW SELECTOR YKS11-0002 02-4 [U]
12	✱EZ-371605	BUSH CORD 2271
13A	✱EW-374894	AC CORD 2C VM-0129A,VFF U/T [U]
13B	✱EW-336923	AC CORD 2C KP-419C,LTCE-2F EV [E,V]
13C	✱EW-727063T	AC CORD BS6500 (B) [B]
13D	✱EW-347898	AC CORD 2 CORES VM-0436,LCFL S [S]

8. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1A	BD-729404T	PANEL FRONT BLK AM-15
1B	BD-729397T	PANEL FRONT BLK AM-25
2	SK-720593	KNOB POWER
3	SK-727068T	KNOB SPEAKER
4	SK-725598T	KNOB TONE-B
5	SK-727068T	KNOB SPEAKER
6	SK-727068T	KNOB SPEAKER
7	SK-727080T	KNOB VOLUME
8	SP-727066T	UPPER COVER AM-A335
9	ZS-322580	ST BID40X08STL BNI
10	ZS-725691T	SCREW METAL M3*6
11	SP-727065T	LOWER COVER AM-A335
12	ZS-320906	ST BR30X06STL CMT
13A	SA-729420T	LEG AM-25
13B	SA-729419T	CUSHION LEG
14	SK-727069T	KNOB MODE

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

FINAL ASSEMBLY BLOCK



INDEX

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
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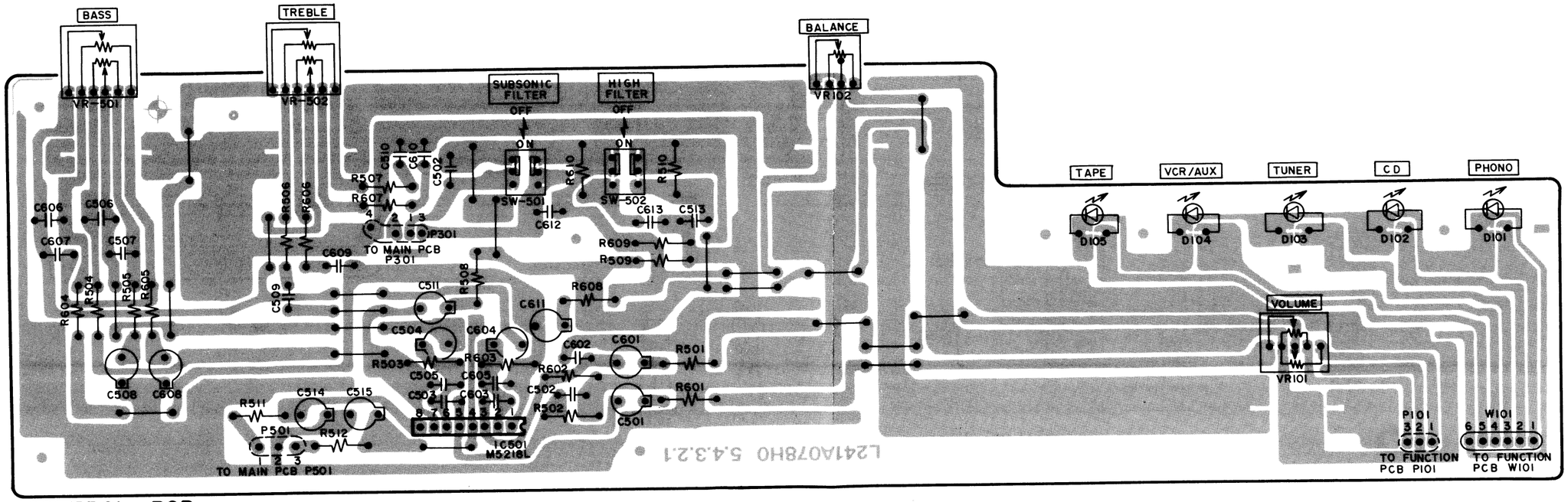
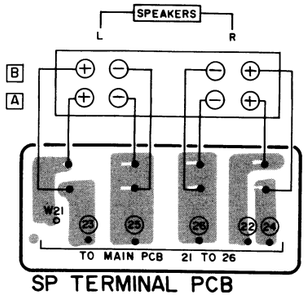
AKAI

MODEL AM-15
MODEL AM-25

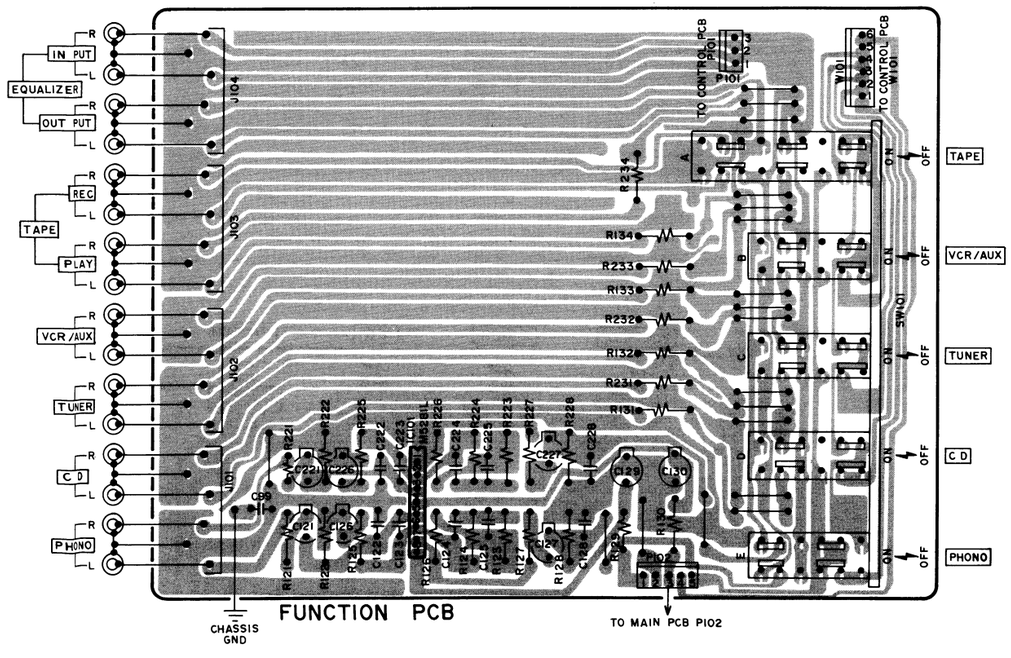
SCHEMATIC DIAGRAMS
AND PC BOARDS



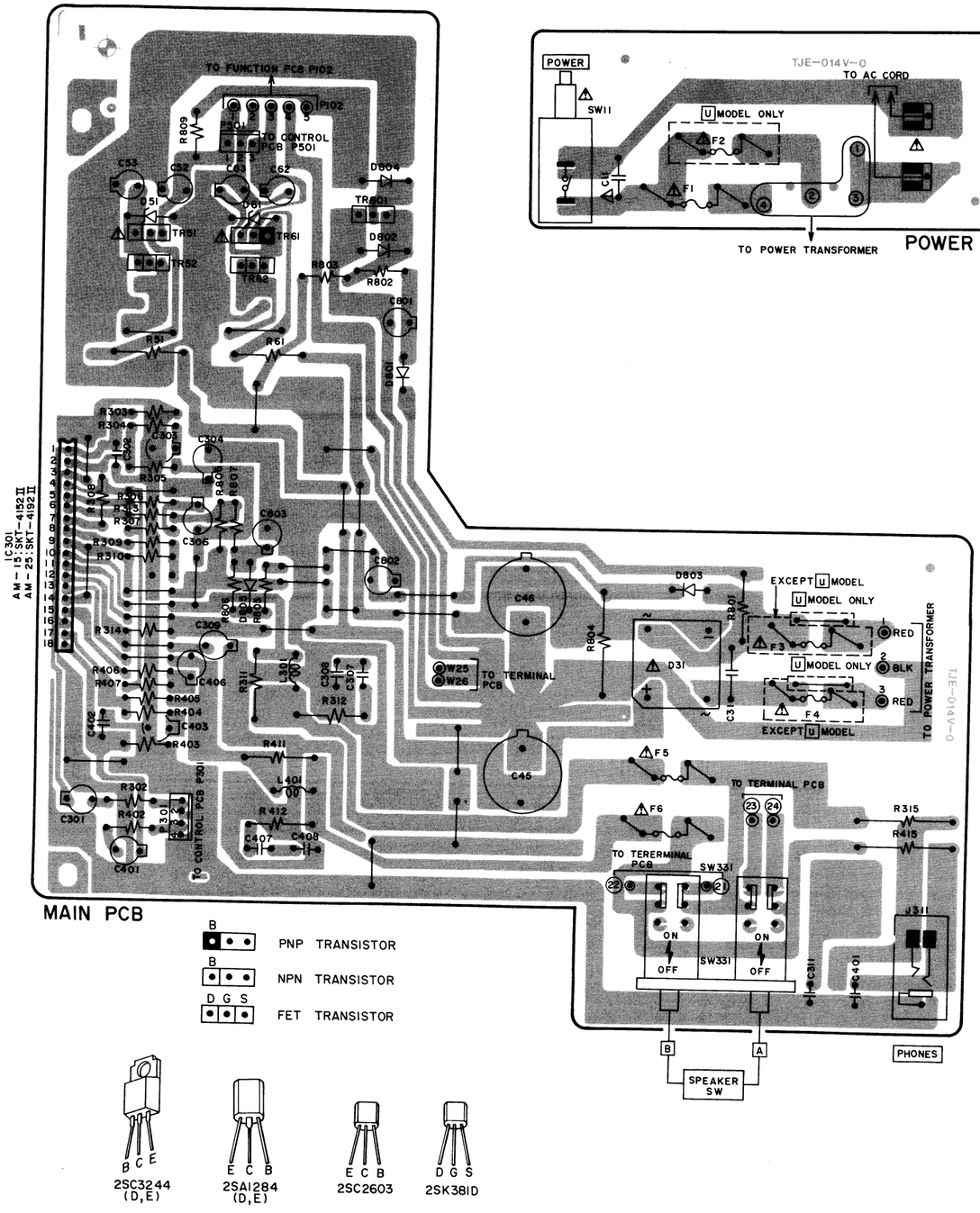
CONTROL PCB



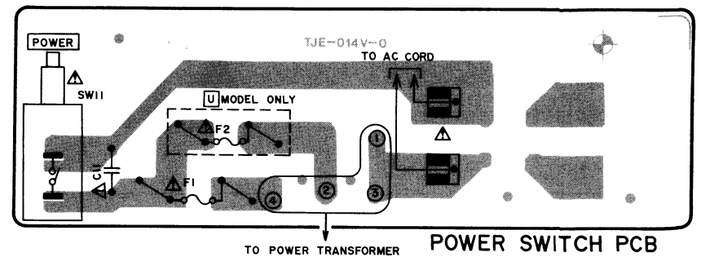
SP TERMINAL PCB



FUNCTION PCB



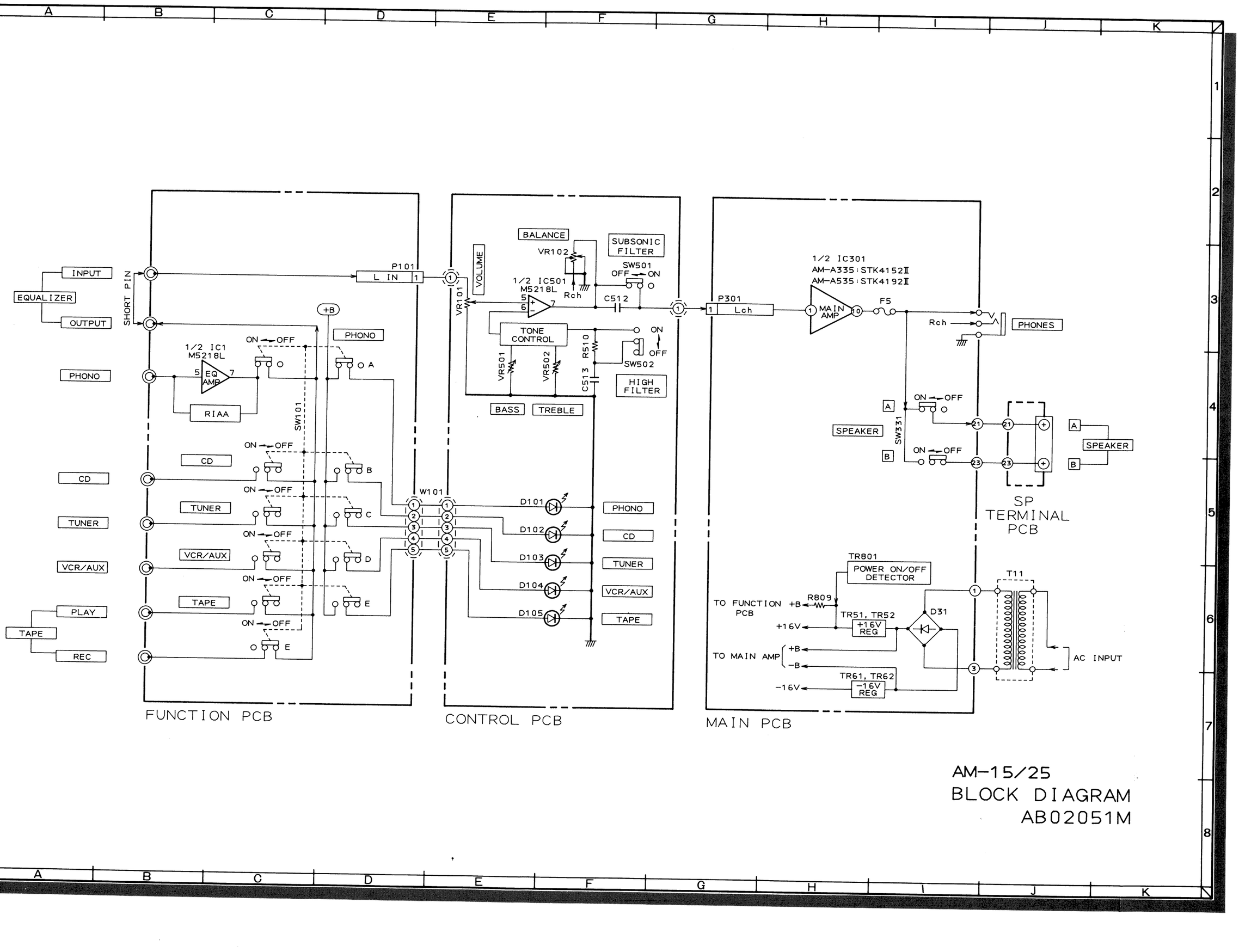
MAIN PCB



POWER SWITCH PCB

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICAN



AM-15/25
BLOCK DIAGRAM
AB02051M

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)

: B (POWER SUPPLY) LINE
: SIGNAL LINE

F G H I J K

1 2 3 4 5 6 7 8

*F3 TO *F6 (AM-15)

*	F3	F4	F5	F6
E, B, S	T3.15A	T3.15A	T2.5A	T2.5A
U			3.15A/250V	3.15A/250V

*F3 TO *F6 (AM-25)

*	F3	F4	F5	F6
E, B, S	T4A	T4A	T3.15A	T3.15A
U			4A/250V	4A/250V

*R315, *R415
AM-15:1W 330
AM-25:1W 390

C511 2.2/50 (M) R508 4.7K C512 0.056
SUBSONIC FILTER ON OFF SW501
TREBLE VR502 1.8K VR102 10K BALANCE
C512 0.056 R511 56K R611 56K
C510 0.047 R507 330 R606 560 C610 0.0068
HIGH FILTER OFF ON SW502
VR602 1.8K R609 100K R610 470K R610 470K
C611 2.2/50 (M) R608 4.7K
C515 47/16 (M) C613 0.01 C513 0.01 C514 47/16 (M)
R512 1/3W 100 R511 1/3W 100

P301
1 L CH
2 GND
3 R CH
4 SHIELD

P501
3 -16V
2 GND
1 +16V

P102
1 +16V
2 GND
3 -16V
4 GND
5 +8

MAIN PCB

R302 1K C301 4.7/50 (M) C302 470P
C309 100/50 (M) R314 56
IC301 1/2
AM-15:STK4152 I
AM-25:STK4192 I
R303 47K R304 1.2K C303 100/6.3 (M) R305 56K R308 8.2 R306 2.2K R307 2.2K R309 1K R313 10K C304 100/50 (M) C305 22/50 (M) C306 47/50 (M) R310 10K C307 0.047 (K) C308 0.047 (K)
R311 1W 10 ⚠ *F5 L301 R312 1W 10
J311 *R315 *R415 PHONES
SW331 A B
SPEAKERS A R L B R L
C311 0.01
SP TERMINAC PCB

R402 1K C401 4.7/50 C402 470P R403 47K C403 100/6.3 (M) R404 1.2K R405 56K R406 2.2K R407 2.2K C406 47/50 (M) C407 0.047 (K) C408 0.047 (K)
IC301 2/2
L401 00 R411 1W 10 ⚠ *F6 R412 1W 10

D804 DS446 1.8V
TR801 2SC2603 (E, F) 0V
R802 1/3W 10K
D801 DS446 R801 1/3W 100 D803 DS135
R805 1K D805 DS446 R807 R808 270K R806 47K
D802 DS442 R803 56K C801 3.3/50 (M) R804 2W 2.2K C803 100/16 (M) C802 47/50 (M)
R809 1/3W 1.8K
⚠ *F3 ⚠ *F4
*D31 ⚠
C31 0.047
T11 AC28.0V (AC36.0V) 0V AC28.0V (AC36.0V)
VOLTAGE SELECTOR 110V 120V 220V 240V
TR51 2SC3244 (D, E) TR61 2SA1284 (D, E)
TR51 TR52 2SK381D TR61 TR62 2SK381D
R51 R61 1/3W 560
C52 100/25 (M) C53 2.2/50 (M) C62 100/25 (M) C63 2.2/50 (M) C45 C46
D51 RD16EB3 D61 RD16EB3
*D31
AM-15:DBA-30CK
AM-25:DBA-60CK

*R51
AM-15:1/2W 220
AM-25:1W 390

*C45, *C46
AM-15:4700/40 (M)
AM-25:4700/50 (M)

*F1, *F2
AM-15:1.25A/250V
AM-25:2A/250V
C11 0.0047/400AC SW11 POWER
AC SWITCH PCB U
U AC110V TO 240V 50/60Hz

T11 F1 AM-15:T800mA AM-25:T1.25A
C11 0.0047/400AC SW11 POWER
AC SWITCH PCB E
E AC220V 50Hz
AM-15:T800mA
AM-25:T1.25A
AC SWITCH PCB B, S
B AC240V 50Hz
S AC240V 50Hz

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50WV (J)

: B (POWER SUPPLY) LINE
: SIGNAL LINE

WARNING: ⚠ AND [ ] INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS
AVERTISSMENT: ⚠ ET [ ], ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

INDICATED VOLTAGES ARE MEASURED IN PHONO POSITION AND VOLUME IS SET TO MINIMUM.
INDICATED VOLTAGES IN ( ): FOR AM-A535 ONLY

AM-15/25
SCHEMATIC DIAGRAM
No. AB02002M

ABBREVIATIONS (AMPLIFIER)

ABBREVIATIONS	EXPLANATION
AC	Alternating Current
AMP	AMPiifier
CD	Compact Disc
DC	Direct Current
GND	GrouND
MC	Moving Coil
MM	Moving Magnet
PCB	Printed Circuit Board
REC	RECord
SW	SWitch
V.DISC	Video DISC
VR	Variable Resistance
VTR	Video Tape Recorder